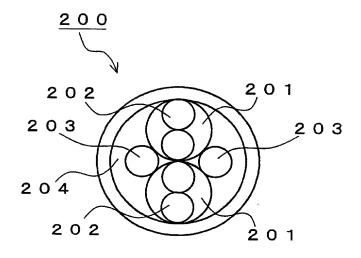
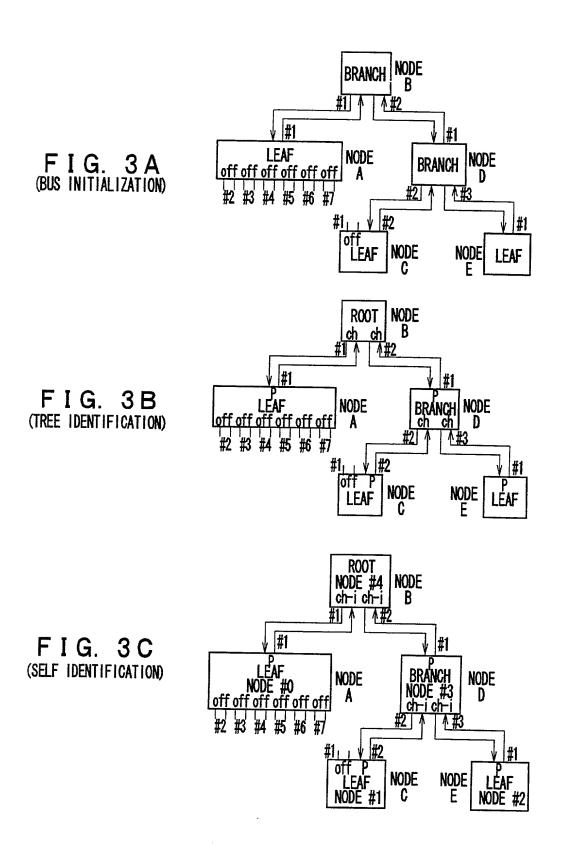
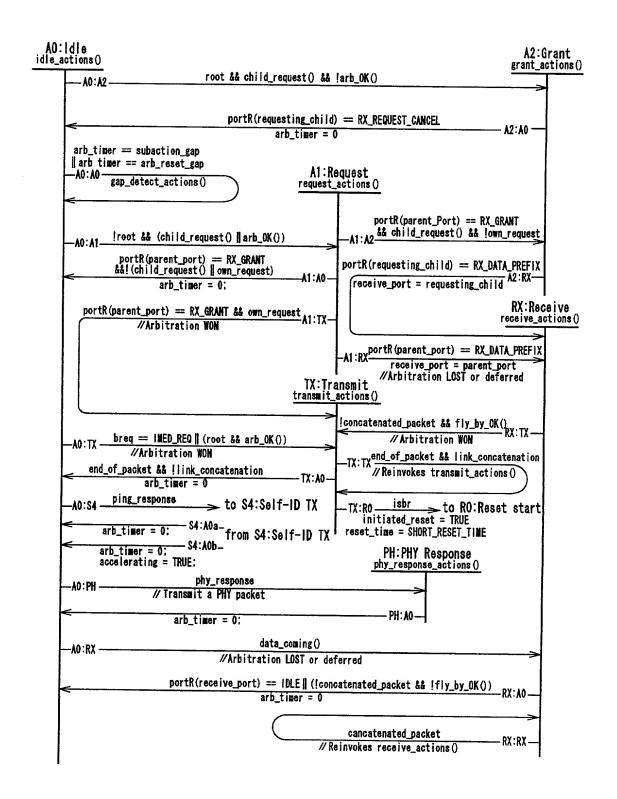
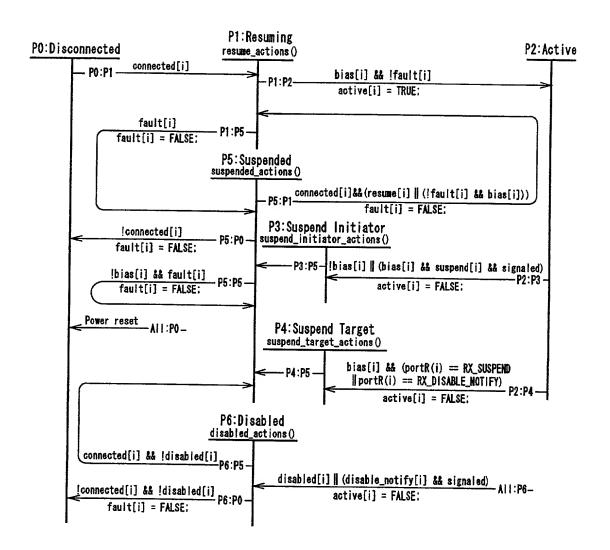


F I G. 2









NodeE | NodeC | IDLE | (R00T)

NodeD | NodeB | IDLE

NodeA | REQ

F I G. 6 B

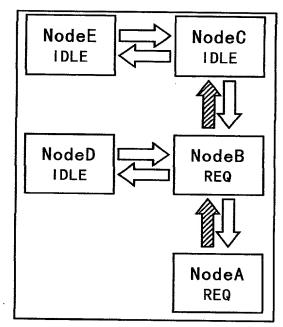
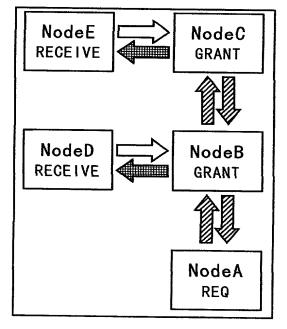


FIG.6C

NodeE
RECEIVE
RECEIVE
RECEIVE

NodeD NodeB REQ NodeA REQ

F 1 G. 6 D



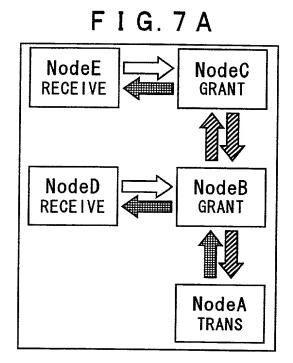
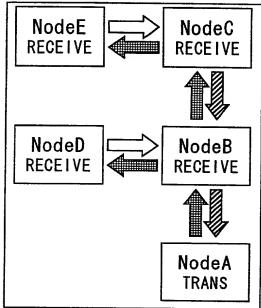
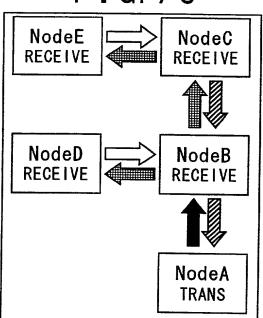


FIG.7B



F I G. 7 C



F I G. 7 D

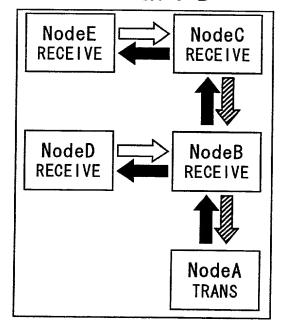


FIG.8A

NodeE
IDLE
NodeD
IDLE
NodeB
REQ
NodeA
IDLE

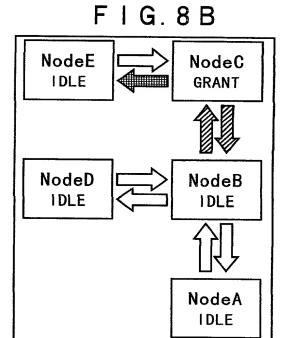
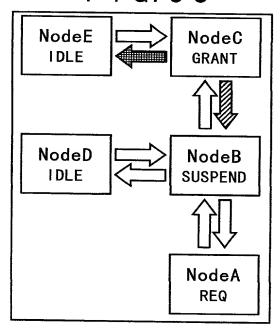


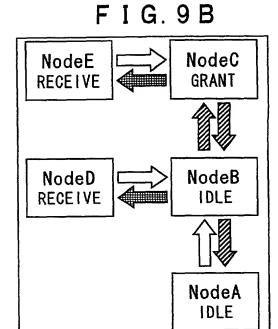
FIG.8C



**NodeA** 

IDLE

F I G. 9 A



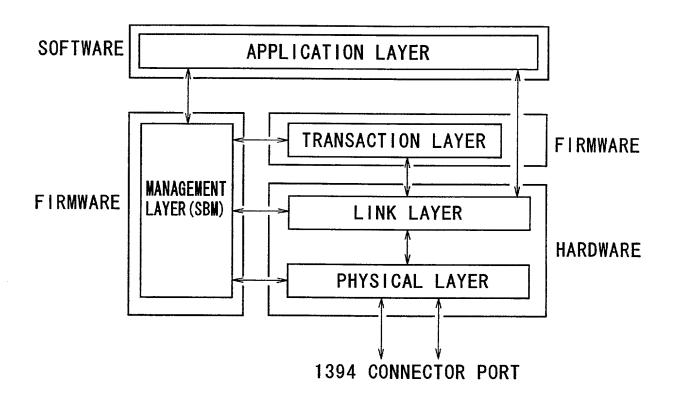
NodeE IDLE NodeC IDLE

NodeD NodeB SUSPEND

NodeA IDLE

HARD DISK DRIVE 0 ∕0 ٦ 2 PRINTER 2 0 200Mbps 100Mbps 5 0 2 FIG. 10 PERSONAL COMPUTER SCANNER 20 400Mbps CAMERA 2 0 200Mbps WORKSTATION L , 100Mbps <u>ო</u> CD-ROM

F I G. 11



F I G. 12

Subaction gap	arbitration	packet	Ack	Ack	Subaction
- Sub		L	gap		gap

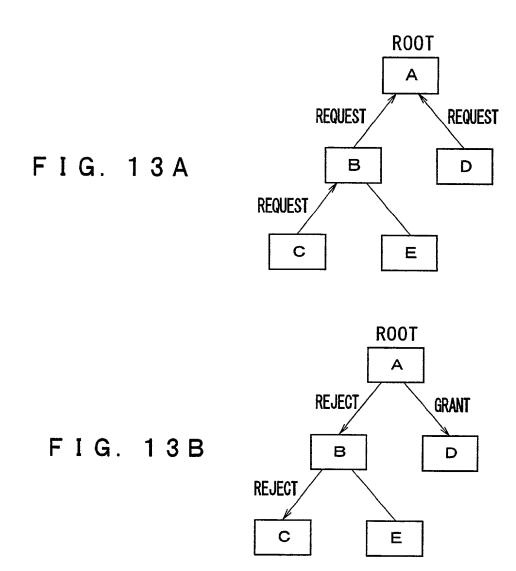
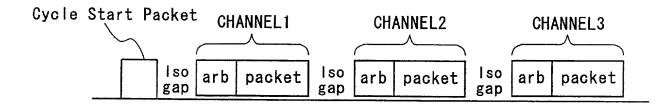
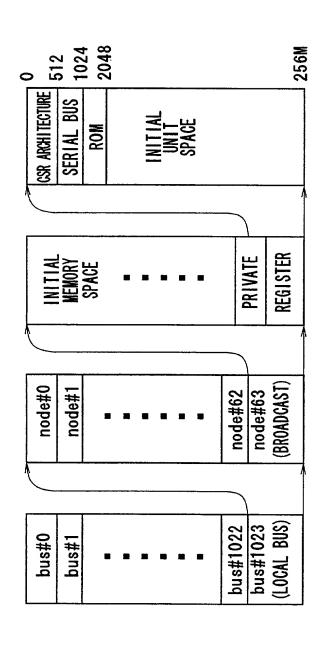


FIG. 14



F I G. 15



#snq	#apou	ADDRESS SPACE CHARACTERISTIC OF NODE
<b>10 BITS</b>	6 BITS	48 BITS

0FFSETS	NAMES	FUNCTIONS
4000	STATE_CLEAR	STATE AND CONTROL INFORMATION
004h	STATE_SET	SET STATE_CLEAR BIT
008h	NODE_IDs	INDICATE 16-BIT NODE ID
00Ch	RESET_START	START COMMAND RESET
018h-01Ch	SPLIT_TIMEOUT	PRESCRIBE MAXIMUM TIME OF SPLIT
200h	CYCLE_TIME	CYCLE TIME
210h	BUSY_TIMEOUT	PRESCRIBE LIMIT OF RETRY
21Ch	BUS_MANAGER	INDICATE BUS MANAGER ID
220h	BANDW!DTH_AVA!LABLE	INDICATE BANDWIDTH THAT CAN BE ASSIGNED TO ISOCHRONOUS COMMUNICATION
224h-228h	CHANNELS_AVA I LABLE	INDICATE USED STATE OF EACH
		CHANNEL

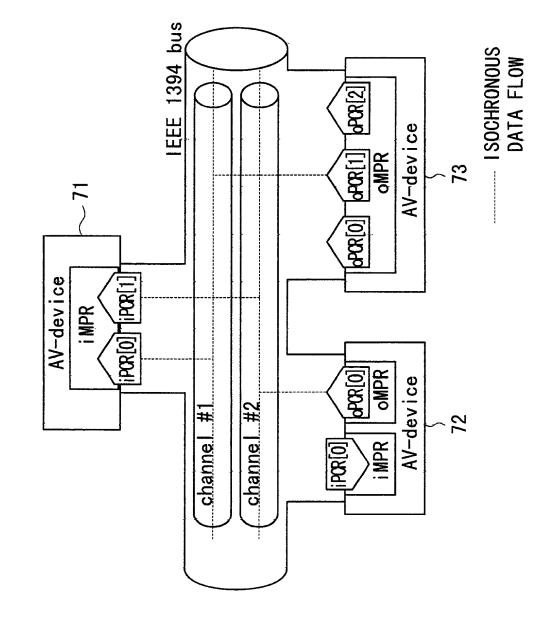
جر ج			
ngt 	info_length	crc_length	rom_crc_value
nfo_length   		bus_info_bl	ock
info		root_direct	ory
		unit_directo	ries
		root & unit	eaves
	vendo	or_dependent_	information

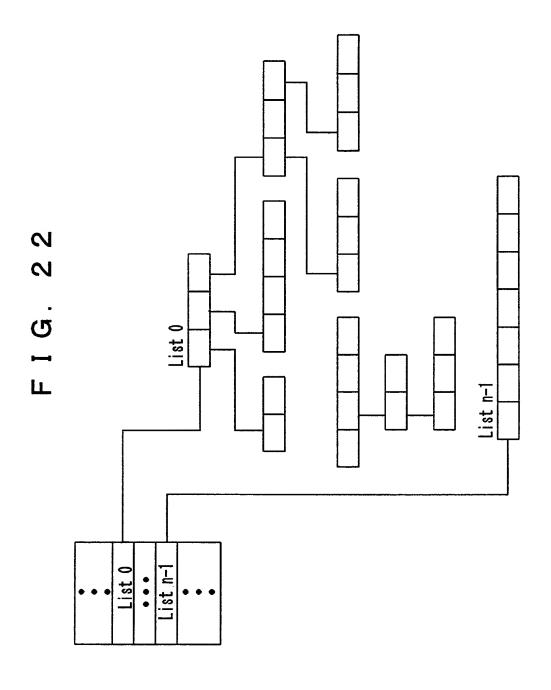
900h	Output Master Plug Register
904h	Output Plug Control Register #0
908h	Output Plug Control Register #1
1	
97Ch	Output Plug Control Register #30
980h	Input Master Plug Register
984h	Input Plug Control Register #0
988h	Input Plug Control Register #1
9FCh	Input Plug Control Register #30

400h	04h	crc_length	r	om_crc_value			
	Bus_info_bloc	ck					
404h	"1394 <b>"</b>						
408h	EB.S. Ereserved cyc_clk_acc max_red reserved						
40Ch	Company_ID Chip_ID_hi						
410h		Chip_	ID_	lo			
	Root_directo	ry					
414h	root_	length		CRC			
418h	03h module_vendor_id						
41Ch	0Ch	OCh node_capabilities					
420h	8Dh	node_unique_id offset					
424h	D1h	unit_directory_offset					
428h							
	Optional.						
	Unit_directory						
	unit_directory_length			CRC			
	12h unit_spec_id			spec_id			
	13h unit_sw_version						
		Opti	onal.	<u></u>			

	reserved number of output plugs	5 (bit)		overhead pay load	4 10(bit)		number of output plugs	5 (bit)		reserved	16 (bit)
	reserved	က		data over	2 ,		reserved	က		channel	9
	persistent tension field	∞		reserved number	9		persistent extension field	æ		reserved	2
	te broadcast non-persistent persistent ity channel base extension field extension field	æ		point-to-point connection reserv counter	6 2		reserved non-persistent persistent extension field	œ		point-to-point connection counter	9
	te broadcast mon-persistent ity channel base extension field	9		broadcast poir connection concounter	<del>-</del>		reserved	9		broadcast connection counter	
oMPR	data rate capabilit	2	oPCR[n]	on-line co	_	iMPR	data rate capability	2	i PCR [n]	on-line	
	2 0 A			2 0 B			20C			2 0 D	
	F1G. 20A			F1G. 20B			F1G. 20C			F1G. 20D	

FIG. 21





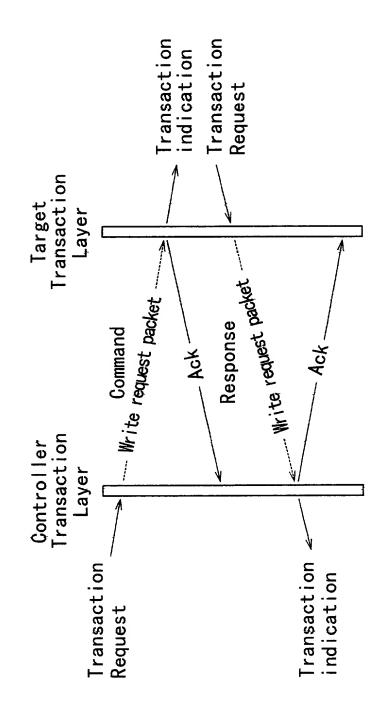
The Gener	ral Subunit Identifier Descriptor		
address	contents		
00 0016	descriptor_length		
00 0116			
00 0216	generation_ID		
00 0316	size_of_list_ID		
00 0416	size_of_object_ID		
00 0516	size_of_object_position		
00 0616	<pre>number_of_root_object_lists(n)</pre>		
00 0716			
00 0816	root_object_list_id_0		
ļ			
l	root_object_list_id_n-1		
	subunit_dependent_length		
	subunit_dependent_information		
	manufacturer_dependent_length		
	manufacturer_dependent_information		

generation_ID values				
generation_ID	mean i ng			
0016	Data structures and command sets as specified in the AV/C General Specification, version 3.0			
all others	reserved for future specification			

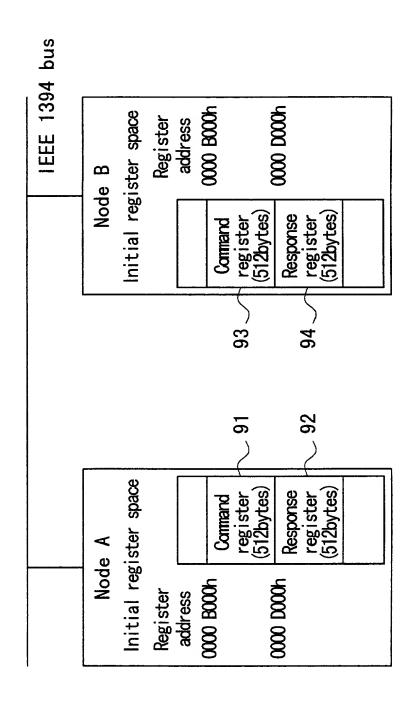
## F I G. 25

List ID Value Assignment Ranges				
range of values	list definition			
000016-0FFF16	reserved			
100016-3FFF16	subunit-type dependent			
400016-FFFF16	reserved			
1 000016-max list ID value	subunit-type dependent			

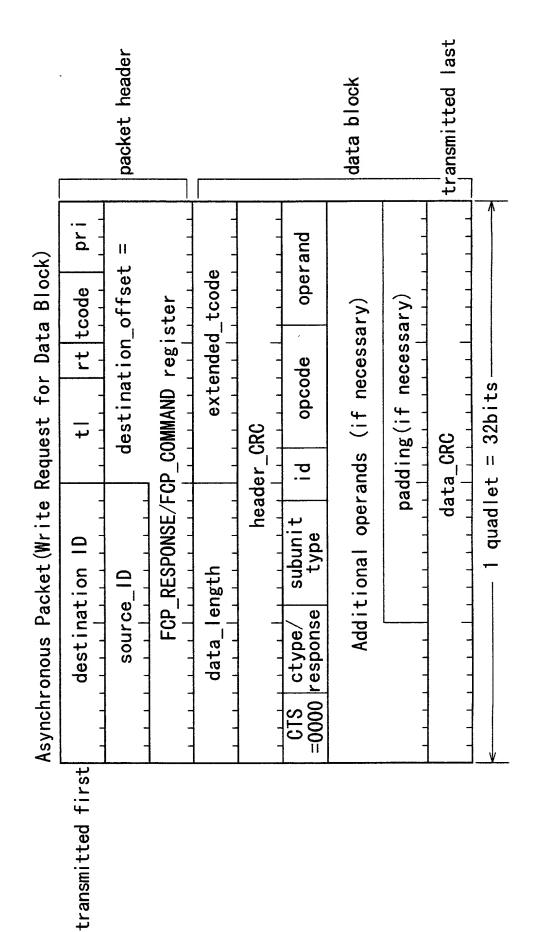
F1G. 26



F1G. 27



F I G. 28



F1G. 29A

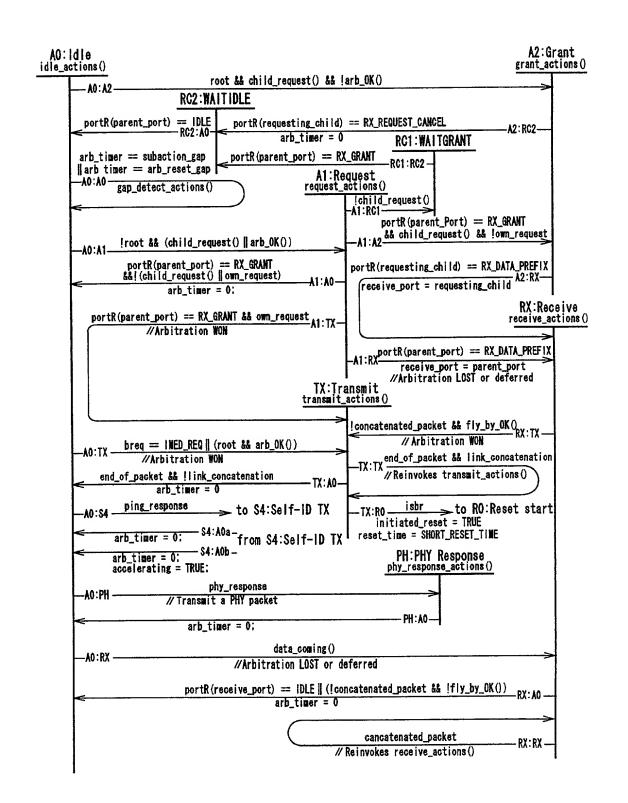
FIG. 29B

F1G. 29C

<del> </del>		
operand= 75h	FORWARD	operand= 75h
opcode= C3h	SE PLAY	opcode= C3h
i d= 000	THE CA OF 100	-p i
subunit type= 00100	tape recorder IN /player	CTS= response subunit 0000 =1001 00100
ctype= 0000	accepted	response =1001
CTS= 0000	AV/G	CTS= 0000
30A		30B
رن ت		G.
<u>н</u>		<u>н</u>
	I G. 30A CTS= ctype= type= type= ctype= ctyp	I G. 3 O A CTS= ctype= type= type= ctype= ctype= colon

108 8 <del>1</del> 00 CABLE PORT2 CABLE PORT3 CABLE PORT1 B (STROBE) B (STROBE) B (STROBE) A (DATA) 705 A (DATA) -106 A (DATA) PORT LOGIC2 PORT LOGIC3 PORT LOGIC1 103 RXCLK1 RXCLK2 RXCLK3 DATA2 DATA3 DATAL RXCLK/DATA SELECTOR ARB. SIGNAL3 ARB. SIGNAL2 ARB. SIGNAL1 DATA RXCLK. TXCLK PHY L061C 굺 LREO SYSCLK DATA 102 CTR 100 LINK X' TAL

FIG. 31

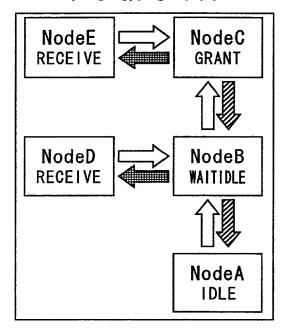


F I G. 33B F I G. 33A NodeC NodeC NodeE NodeE GRANT **GRANT** RECEIVE RECEIVE (R00T) NodeB NodeB NodeD NodeD **IDLE** WAITIDLE IDLE WAITGRANT **NodeA** NodeA IDLE IDLE F I G. 33D F I G. 33C **NodeC** NodeC NodeE NodeE IDLE IDLE IDLE IDLE NodeD NodeB NodeB NodeD IDLE IDLE IDLE WAITIDLE

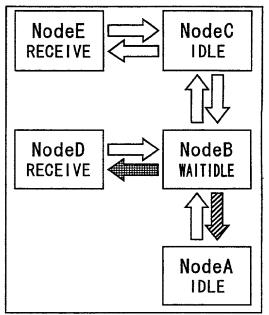
NodeA IDLE NodeA

IDLE

F I G. 34A



F I G. 34B



F I G. 3 4 C

